

IN THE CLAIMS:

1. and 2. (Cancel)

3. (Previously Presented) An open-type magnet device for MRI, comprising:
a pair of an upper and a lower magnet assemblies which are arranged to oppose to each other so as to generate a uniform static magnetic field in a space region which covers a test portion of a subject, and each of which includes: a main superconductive coil for generating a uniform static magnetic field therebetween and an adjusting superconductive coil for adjusting magnetic field uniformity of the uniform static magnetic field;

a cooling vessel containing the main superconductive coil and the adjusting superconductive coil for maintaining a superconductive state; and

magnetic field adjusting means arranged at the uniform static magnetic field space side of the cooling vessel, so as to further adjust the magnetic field uniformity of the uniform static magnetic field space region;

wherein the cooling vessel is a doughnut-shaped cooling vessel having a through hole in a center portion thereof and the magnetic field adjusting means is arranged at a predetermined position of the through hole; and

the magnetic field adjusting means is also arranged to the side of the uniform static magnetic field space and outside the through hole.

4. (Previously Presented) An open-type magnet device for MRI, comprising:

a pair of an upper and a lower magnet assemblies which are arranged to oppose to each other so as to generate a uniform static magnetic field in a space region which covers a test portion of a subject, and each of which includes: a main superconductive coil for generating a uniform static magnetic field therebetween and an adjusting superconductive coil for adjusting magnetic field uniformity of the uniform static magnetic field;

a cooling vessel containing the main superconductive coil and the adjusting superconductive coil for maintaining a superconductive state; and

magnetic field adjusting means arranged at the uniform static magnetic field space side of the cooling vessel, so as to further adjust the magnetic field uniformity of the uniform static magnetic field space region;

wherein the cooling vessel is a cylinder-shaped or a doughnut-shaped cooling vessel having a through hole in a center portion thereof and the magnetic field adjusting means is arranged in a region range of $2R/3$ wherein R represents a radius of the opposing surface of the cooling vessel.

5. and 6. (Cancel)

7. (Previously Presented) An open-type magnet device for MRI, comprising:

a pair of an upper and a lower magnet assemblies which are arranged to oppose to each other so as to generate a uniform static magnetic field in a space region which covers a test portion of a subject and each of which includes: a main superconductive coil for generating a uniform static magnetic field therebetween and

an adjusting superconductive coil for adjusting magnetic field uniformity of the uniform static magnetic field;

a doughnut-shaped cooling vessel having a through hole in a center portion thereof and containing the main superconductive coil and adjusting superconductive coil for maintaining a superconductive state; and

magnetic field adjusting means arranged at a predetermined position in the through hole of the cooling vessel, so as to further adjust magnetic field uniformity of the uniform static magnetic field space region;

wherein the magnetic field adjusting means is also arranged to the side of the uniform static magnetic field space and outside the through hole.

8.-14. (Cancel)

15. (Previously Presented) The open-type magnet device for MRI as claimed in Claim 7, comprising at least one additional magnetic field adjusting means arranged between the uniform static magnetic field space and the cooling vessel.

16. (Previously Presented) The open-type magnet device for MRI as claimed in Claim 7, wherein at least one of the magnetic field adjusting means is also arranged along a cooling vessel side-wall which faces a central longitudinal axis of the through hole of the cooling vessel.

17. (Previously Presented) The open-type magnet device for MRI as claimed in Claim 7, comprising additional ones of the magnetic field adjusting means

provided on differing layers arranged between the uniform static magnetic field space and the cooling vessel.

18.-21. (Cancel)

22. (Previously Presented) The open-type magnet device for MRI as claimed in Claim 7, wherein at least one of the magnetic field means is detachably attached to the inside or outside of the through hole.

23.-25. (Cancel)